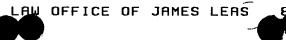
IN THE CLAIMS:

Please cancel claims 33-71.

Please amend the following claim:

All claims presently in the case are presented below for the convenience of the examiner.

<u>- </u>		
Shot B1 1.	(Amended)	A method of fabricating an electronic device, comprising the steps
P 2	of:	
3	a)	providing a coil of conductor and an insulation, said coil of
4		conductor having a coil outer surface, said insulation on said coil
5		outer surface;
3		outer surface,
6	b)	forming openings in portions of said insulation on said coil outer
7		surface and exposing conductor of said coil for contacts; and
$A \cup A$		
8	c)	dicing through said coil to provide a plurality of short coils,
9		wherein each said short coil has at least one said opening in said
10		insulation,
11 2.	(Amended)	The method as recited in claim 74, wherein said providing step (a)
12	comprises th	ne step of providing a tube and a wire, and winding said wire around
13	said tube.	
1 3.	(Amended)	The method as recited in claim 2, wherein, in said providing step (a),
2		mprises two ends, wherein neither of said ends extends from said coil
3	for contactin	
		-



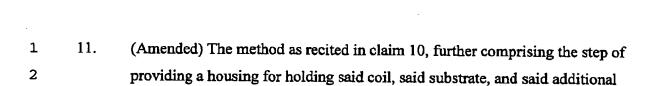
1	4.	(Amended) The method as recited in claim 1, further comprising the steps of:
.2		
3		e) providing a substrate; and
4		
5		f) surface mounting said coil to said substrate.
1	5.	(Amended) The method as recited in claim 4, wherein, in said providing step (e),
2		said substrate comprises a printed circuit board, a ceramic substrate, a flexible
3		material, or an integrated circuit.
1	6.	(Amended) The method as recited in claim 4, wherein said surface mounting
2		step (f) comprises the step of electrically connecting conductor exposed in said
3		opening in said insulation to said substrate.
1	7.	The method as recited in claim 6, further comprising the step of providing a
2		solder or conductive polymer, wherein said electrical connecting step comprises
3		joining with said solder or said conductive polymer.
1	8.	The method as recited in claim 7, wherein said joining step comprises providing
2		solder paste between said substrate and said conductor exposed in said window
3		and heating to reflow said solder.
1	9.	(Amended) The method as recited in claim 4, further comprising the step of
2		mounting additional electronics on said substrate.
1	10.	The method as recited in claim 9, further comprising the step of connecting said

additional electronics to said coil.

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electronics.

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- 12. The method as recited in claim 11, further comprising the step of hermetically 1 2 sealing said housing.
- 1 13. The method as recited in claim 11, further comprising the step of providing pins 2 for external connection through said housing.
- (Amended) The method as recited in claim 11, wherein said coil and said 1 14. 2 additional electronics comprise a sensor.
- 1 15. The method as recited in claim 14, wherein said sensor comprises a variable 2 reluctance transducer.
- 1 16. The method as recited in claim 14, wherein said sensor is for measuring strain. 2 displacement, acceleration, force, or pressure.
- 1 17. The method as recited in claim 14, further comprising the step of providing a 2 circuit to correct for temperature variation.
- 1 18. (Amended) The method as recited in claim 17, wherein said circuit is integrated 2 within said housing.
- 1 19. (Amended) The method as recited in claim 17, wherein said circuit is located 2 within signal conditioning electronics separate from said housing.



- The method as recited in claim 9, wherein said additional electronics provides excitation or synchronous demodulation.
- 1 21. (Amended) The method as recited in claim 9, wherein said additional electronics 2 converts an ac waveform to a dc voltage.
- 1 22. (Amended) The method as recited in claim 1, further comprising the step of cenclosing said coil in a housing and hermetically sealing said housing.
- 1 23. (Amended) The method as recited in claim 1, wherein said step of forming openings in portions of said insulation comprises laser ablating said insulation.
- 1 24. (Amended) The method as recited in claim 23, wherein said step of laser ablating said insulation, comprises directing light from a laser on said insulation.
- 1 25. (Amended) The method as recited in claim 23, wherein said coil comprises a
 2 plurality of turns of said wire and wherein said step of laser ablating said
 3 insulation comprises opening said insulation over a plurality of said turns of wire.
- 1 26. (Amended) The method as recited in claim 23, wherein said step of laser ablating said insulation comprises ablating a ring shaped opening in said insulation.
- 1 27. The method as recited in claim 1, wherein said insulation comprises polyimide.
- 1 28. (Amended) The method as recited in claim 75, further comprising the step of providing a structure for holding position of said core within said tube.



1 .	29.	(Amended) The method as recited in claim 28, further comprising the step of
2		providing a structure for resetting position of said core within said tube.

30. 1 (Amended) The method as recited in claim 29, wherein said structure for resetting position of said core within said tube comprises an electronically 2. controllable clamp.

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- 1 31. The method as recited in claim 30, wherein said electronically controllable clamp 2 comprises a shape memory alloy.
- 32. 1 (Amended) The method as recited in claim 29, wherein said structure for resetting position of said core further comprises a spring so said core can snap to 2 3 a new position when said clamp is released.

Please add the following new claims:

The method as recited in claim 1, wherein said step of forming openings in 1 72. 2 portions of said insulation comprises abrading said insulation. 73. 1 The method as recited in claim 1, wherein said step of forming openings in portions of said insulation comprises chemically etching said insulation. 2 The method as recited in claim 1, wherein said providing step (a) comprises 74. 1 2 providing said coil of conductor and said insulation on a tube. The method as recited in claim 74, further comprising the step of providing a 1 *75*. 2 movable core within said tube for adjusting inductance of said coil. The method as recited in claim 75, further comprising the steps of: 76. 1 2 3 providing a substrate; and e) 5 surface mounting said coil to said substrate. f) 1 *77*. The method as recited in claim 76, wherein, in said providing step (e), said substrate comprises a printed circuit board, a ceramic substrate, a flexible 2 3 material, or an integrated circuit.

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in said insulation to said substrate.

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78.

The method as recited in claim 76, wherein said surface mounting step (f)

comprises the step of electrically connecting conductor exposed in said opening

1	79.	The method as recited in claim 78, further comprising the step of providing a
2		solder or conductive polymer, wherein said electrical connecting step comprises
3		joining with said solder or said conductive polymer.
1	80.	The method as recited in claim 79, wherein said joining step comprises providing
2		solder paste between said substrate and said conductor exposed in said window
3		and heating to reflow said solder.
1 2	81.	The method as recited in claim 76, further comprising the step of mounting additional electronics on said substrate.
1	82.	The method as recited in claim 81, further comprising the step of connecting said
2		additional electronics to said coil.
1	83.	The method as recited in claim 82, further comprising the step of providing a
2		housing for holding said coil, said substrate, and said additional electronics.
1	84.	The method as recited in claim 83, further comprising the step of hermetically
2		sealing said housing.
l.	85.	The method as recited in claim 83, further comprising the step of providing pins
2		for external connection through said housing.
L	86.	The method as recited in claim 83, wherein said coil and said additional
2		electronics comprise a sensor.
L	87.	The method as recited in claim 86, wherein said sensor comprises a variable
)		walisatawaa tuuwadisaa

1	88.	The method as recited in claim 86, wherein said sensor is for measuring strain,
2		displacement, acceleration, force, or pressure.
1	89.	The method as recited in claim 86, further comprising the step of providing a
2		circuit to correct for temperature variation.
1	90.	The method as recited in claim 89, wherein said circuit is integrated within said
2		housing.
1	91.	The method as recited in claim 89, wherein said circuit is located within signal
2		conditioning electronics separate from said housing.
1	92.	The method as recited in claim 81, wherein said additional electronics provides
2		excitation or synchronous demodulation.
1	93.	The method as recited in claim 81, wherein said additional electronics converts
2		an ac waveform to a dc voltage.
1	94.	The method as recited in claim 75, further comprising the step of enclosing said
2		coil in a housing and hermetically sealing said housing.
1	95.	The method as recited in claim 75, wherein said step of forming openings in
2		portions of said insulation comprises laser ablating said insulation.
1	96.	The method as recited in claim 95, wherein said step of laser ablating said
2		insulation, comprises directing light from a laser on said insulation.

